

**REMARKS**

Claims 1-45 are pending in the present application. Applicants respectfully request reconsideration of the application in light of the remarks below.

**Claim Rejections under 35 U.S.C. § 102**

The Office Action rejected claims 1, 7, 13, 19-21, 28-30, and 37-39 under 35 U.S.C. §102(b) as being anticipated by Kumar (U.S. Patent No. 5,578,677).

Kumar discloses a method and system for transmission and reception of a varying reference signal along with a data modulated signal in a communication system, in order to reduce the effects of non-linearity and stationary interference on the recovery of the reference signal. Kumar, however, fails to teach or suggest “time-division-multiplexing a plurality of orthogonally covered digital data sequences and a sequence of pilot symbols to generate a sequence of digital values....,” as recited in claim 13 (emphasis added), or a modulator (or means) configured to perform such, as recited in claim 1 (or 7). Kumar also fails to teach or suggest “receiving a time-division-multiplexed signal including a plurality of orthogonally covered data sequences and a sequence of pilot values, and demodulating the plurality of orthogonally covered data sequences,” as recited in claim 37 (emphasis added), or a communication unit (or means) configured to perform such, as recited in claim 19 (or 28).

For example, in FIG. 4 as cited in the Office Action, Kumar shows a plurality of sub-carrier modulators, each generating a modulated signal. However, Kumar does not teach or suggest as to what the modulated signals thus generated entail, nor does the remainder of Kumar make up for this deficiency.

For at least the reasons stated above, Applicants submit that independent claims 1, 7, 13, 19, 28, and 37 are patentable over Kumar. Applicants respectfully request that the rejections of these claims be withdrawn.

**Claim Rejections under 35 U.S.C. § 103**

The Office Action rejected claims 2, 8 and 14 under 35 U.S.C. §103(a) as being unpatentable over Kumar in view of Salter (U.S. Patent No. 5,682,605).

Claims 2, 8 and 14 each depend from one of independent claims 1, 7 and 13, and are therefore allowable for at least the reasons stated above. Applicants respectfully request that the rejections of these claims be withdrawn.

Allowable Subject Matter

In the Office Action, claims 3-6, 9-12, 15-18, 22-27, 31-36, and 40-45 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claims. Applicants thank the Examiner for the indication of allowable subject matter.

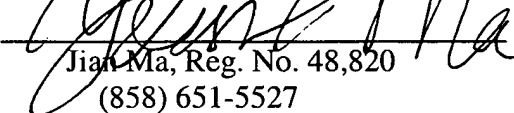
In view of claims 3-6, 9-12, 15-18, 22-27, 31-36, and 40-45 each dependent from one of independent claims 1, 7, 13, 19, 28, and 37, they are also allowable for at least the reasons stated above.

**REQUEST FOR ALLOWANCE**

In view of the foregoing, Applicants submit that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application are earnestly solicited. Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

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